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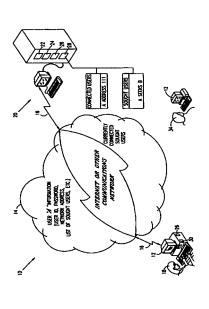
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(54) Title: COMMUNICATIONS SYSTEM

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(57) Abstract

The present invention discloses a communication system including a communications network, a multiplicity of communications terminals which are connectable to the communications network and which can be employed by users to communicate wia the communications network, the user not necessarily being identified with a given communications terminal; apparatus for monitoring whether or not a user is connected to the communications network irrespective of which of the multiplicity of communications reminals that user is employing, and apparatus for amunications terminals, are the environment of the multiplicity of communications terminals, are the multiplicity of communications terminals, are two to communications network values of the multiplicity of definable by the seeking user, and for providing the seeking user connection address information relating to those sought users who are currently connected to the communications network.

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COMMUNICATIONS SYSTEM

FIELD OF THE INVENTION

The present invention relates to communications systems generally and particularly to network communications systems.

BACKGROUND OF THE INVENTION

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Establishing a point-to-point connection between users who are connected via communications terminals to a communications network generally requires that the network address of each connecting user be known to all other connecting users. Many network communications service providers, such as Internet Service Providers (ISP's), assign users a different network address, such as an IP address, each time they connect to the network, making foreknowledge of a particular user's network address impossible.

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Some commercial and non-commercial services maintain network servers connected to a network. Users who connect to the network provide their current network address and other identifying information to one or more of these network servers. This information is made available to other users connected to the network for purposes including point-to-point communications. Such services include Internet Relay Chat (IRC), for which software is commercially available from Surfing Squirrel Productions, Inc., Microsoft User Location Service (ULS), commercially available from Microsoft Corporation, and the Automatic Call Distribution System (ACD), commercially available from Executone Information Systems, Inc.

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A user wishing to locate another user may connect to a network server that records user information in order to determine the other user's network address. A user usually locates another user by looking for the other user's electronic mail address, one or more nicknames that the other user often uses, or other identifying information. The effective use of

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such identifying information is limited inasmuch as a single user might have multiple electronic mail addresses, multiple users might use the same nickname, or a user might be connected via another user's network connection.

Unfortunately, services like those mentioned above do not generally provide for the unique identification of each user, thereby facilitating accurate location a specific user. Furthermore, such services require that users actively seek out other users, often from among several hundreds or thousands of users known to a server to be connected to a network at any given time. Such services also do not enable a user to limit who may access that user's identification information.

SUMMARY OF THE INVENTION

The present invention seeks to provide an improved communications system for facilitating locating a user who is connected to a communications network, preferably for the purposes of establishing point-to-point communications. A user's location on a communications network is typically expressed in terms of the user's current network address.

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The communications system of the present invention preferably provides at least some and preferably all of the following advantages:

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- a. Users may be located accurately, because each user has a permanent and unique identification code.
- the network server automatically provides a user who is currently connected to the network with a list of other users who are currently connected to the network from among a predefined list of users whose connection status the user wishes to know.
- c. Users are notified automatically when another user, in whom the seeking user has interest, connects to the network.
- d. Users may protect their privacy by limiting who may locate them.

"sought user" encompasses any user whose location, typically a that operates a computer or other communications communicating via a communications network. It is further noted that the term "seeking user" encompasses any user who wishes to locate at least one other user currently connected to the communications network. It is further noted that the term It is noted that throughout the specification and claims the term "user" encompasses any entity, preferably terminal, preferably for the purpose of connecting network address, is desired by a seeking user.

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connection status information relating to other users who are in a set of sought users, which set is definable by the seeking user, and for providing the seeking user connection address communications network and which can be employed by users to necessarily being identified with a given communications terminal, apparatus for monitoring whether or not a user is connected to the communications network irrespective of which of the multiplicity of communications terminals that user is currently connected to the communications network via any of information relating to those sought users who are currently There is thus provided in accordance with a preferred embodiment of the present invention a communication system employing, and apparatus for annunciating to a seeking user, communicate via the communications network, the user a multiplicity the multiplicity of communications terminals, communications terminals which are connectable communications network, connected to the communications network. ส including

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at the present invention, any of the users may function as embodiment of the present invention, any of the users æ Still further in accordance with least one of a seeking user and a sought user.

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function simultaneously as a seeking user and a sought user.

Further in accordance with a preferred embodiment of

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information includes an indication that a sought user is Further in accordance with a preferred embodiment of connection currently connected to the communications network. the network the present invention,

embodiment of the present invention, the network connection status information includes an indication that a sought user has currently become connected to the communications network. with accordance ņ Additionally

Moreover in accordance with a preferred embodiment of information includes an indication that a sought user has currently become disconnected from the communications network. the present invention, the network connection 2

Further in accordance with a preferred embodiment of the present invention, at least one of the users has a unique identification code.

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Still further in accordance with a preferred embodiment of the present invention, the unique identification code is independent of any communications terminal. preferred embodiment of the present invention, at least one server is connected to the communications network, and the apparatus for æ monitoring is resident in the at least one server. accordance with in Additionally 2

Further in accordance with a preferred embodiment of the present invention, at least one server is connected to the communications network, and the apparatus for annunciating is resident in the at least one server.

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Moreover in accordance with a preferred embodiment of the present invention, the communications system includes apparatus for notifying at least once that at least one of users is currently connected to the communications network. 2

the present invention, the apparatus for notifying is resident Further in accordance with a preferred embodiment of in any of the multiplicity of communications terminals. accordance with a preferred embodiment of the present invention, at least one of the users in further Still 35

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is currently connected to the communications network and has a network address, and the communications system includes apparatus for determining the network address.

Additionally in accordance with a preferred embodiment of the present invention, at least one server is connected to the communications network, and the apparatus for determining is resident in the at least one server.

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Moreover in accordance with a preferred embodiment of the present invention, the apparatus for determining is resident in any of the multiplicity of communications terminals.

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Further in accordance with a preferred embodiment of the present invention, the communication system includes apparatus for authorizing whether the at least one seeking user may access any of the information relating to the sought users.

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Still further in accordance with a preferred embodiment of the present invention, the apparatus for authorizing is resident in any of the multiplicity of communications terminals.

Additionally in accordance with a preferred embodiment of the present invention, the communication system includes apparatus for maintaining information regarding any of the users.

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Moreover in accordance with a preferred embodiment of the present invention, the apparatus for maintaining information is resident in at least one server connected to the communications network.

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Further in accordance with a preferred embodiment of the present invention, at least one of the users provides information to the apparatus for maintaining information.

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Still further in accordance with a preferred embodiment of the present invention, the information includes the set of sought users.

Additionally in accordance with a preferred embodiment of the present invention, the information comprises

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a request from a sought user to authorize whether a seeking user may access any of the information relating to the sought user.

currently connected to the communications network via any of network connection information relating to users, the method including monitoring whether or not a user is connected to a connection status information relating to other users who are in a set of sought users, which set is definable by the seeking There is also provided in accordance with a preferred embodiment of the present invention a method for indicating communications terminals, and annunciating to a seeking user, multiplicity terminals, of a communications communications network via any of multiplicity 2

Further in accordance with a preferred embodiment of the present invention, at least one of the users has a unique identification code.

connected to the communications network.

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user, and for providing the seeking user connection address information relating to those sought users who are currently

Still further in accordance with a preferred embodiment of the present invention, the unique identification code is independent of any communications terminal.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention will be understood and 25 appreciated more fully from the following detailed description, taken in conjunction with the drawings in which:

Fig. 1 is a simplified pictorial illustration of a communications system constructed and operative in accordance with a preferred embodiment of the present invention, wherein a user is connecting to a communications network via a communications terminal and user information is provided to a server connected to the communications network.

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Fig. 2 is a simplified pictorial illustration of a communications system constructed and operative in accordance with a preferred embodiment of the present invention, wherein a

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sought user is connecting to the communications network of Fig. 1, information identifying the sought user is provided to the server of Fig. 1, and wherein the server of Fig. 1 communicates information identifying the sought user to the user of Fig. 1.

Fig. 3 is a simplified pictorial illustration of a communications system constructed and operative in accordance with a preferred embodiment of the present invention, wherein the user of Fig. 1 communicates directly with the sought user of Fig. 2, having received the sought user's network address.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

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Reference is now made to Fig. 1 which is a simplified pictorial illustration of a communications system 10 constructed and operative in accordance with a preferred embodiment of the present invention.

multiplicity of communications terminals 12 connectable to a and from at least one server 20 that is also connected to communications network 14 via a multiplicity of connection Communications terminals 12 are preferably operative to receive transmit and receive information via communications network 14 is likewise operative to send and receive information via wireless. communications network 14 via connection media 16. Server inputs from and display information to a user 18, and preferably includes or be wired 9 either Communications system communications network 14. which may 16, media 52 2

14 to a connection monitor 22, which is operative to receive Connection notification apparatus 30 is operative to Communications terminal 12 signals connection notification Connection notification apparatus preferably transmits notification via communications network input via communications network 14, and which is typically An address extractor 26, typically connection notification apparatus 30 is typically resident. connects ij receive input from communications terminal 12, 12 terminal apparatus 30 when communications communications network 14. resident in server 20.

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terminal 12, in which address extractor 26 may alternatively or additionally reside, where address extractor 26 is operative to determine the network address of connection terminal 12 when a connection to communications network 14 is established, and to connection notification resident in server 20, is operative to determine the source 22, to which address extractor 26 is operatively interconnected. Address extractor 26 is operative to provide communicate with communications connection typically resident in server 20, where the address the network address to information management apparatus Address extractor 26 is alternatively received by network address of the notification network address to additionally operative to provide the apparatus 30. maintained. 2

An annunciator 24, typically resident in server 20, is operative to receive information maintained by information management apparatus 28 and transmit this information to communications terminal 12.

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Typical operation of communications system 10 is 20 described in detail below with reference to Figs. 1, 2, and 3.

Reference is now made to Fig. 1 which shows a user 18 establishing a connection to communications network 14, typically the Internet, using a communications terminal 12 via connection medium 16. The connection to communications network 14 is typically via a leased line or dial-up line to a network communications service provider, typically an Internet Service provider (ISP).

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At least one server 20 is typically continually connected to the communications network 14 via connection medium 16. More than one server 20 may be provided wherein all servers are preferably continually synchronized to maintain and supply the same information.

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Once user 18 is connected to communications network 14, connection notification apparatus 30 notifies connection monitor 22 that user 18 is connected to communications network

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current network address for user 18.

preferably operative to extract a network address from transmission packets sent by connection notification apparatus provides the current network address for user 18 to information management apparatus 28 which maintains the address in the list current network address of user 18 when the user is connected Address extractor 26 is transmission packets used in network data transmission Thus address extractor 26 may Address extractor 26 preferably determines the 56 extract the current network address of user 18 22. Address extractor communications terminal 12. protocols such as TCP/IP. to connection monitor of connected users. 30 2

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current network address to connection notification apparatus Connection notification apparatus then transmits the network address to connection monitor 22, which provides the or additionally communicate with communications terminal 12, providing the address to information management apparatus 28 which maintains While address extractor 26 typically communicates with information management apparatus 28 as mentioned above, alternatively the address in the list of connected users. тау 56 address extractor

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provide instructions from user 18 to information management apparatus 28 regarding whether user 18 requests to Communications terminal 12 Communications terminal 12 preferably provides a list of sought users predefined by user 18 to information management apparatus 28 which maintains it.

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information. Information management apparatus 28 maintains a be asked to explicitly authorize whether to reveal information relating to user 18 to a seeking user who requests list of users who request to be asked for authorization. Information management apparatus 28, upon receipt of 12, checks the list of connected users for any sought users typically for display on the terminal. If connected sought annunciator 24 to transmit an annunciation to user 18 at communications terminal 12 wherein the annunciation typically includes the unique identification codes and network addresses for all users who are currently connected to communications a list of sought users from user 18 at communications terminal that are currently connected to communications network 14, users are found, information management apparatus 28 network 14 and who user 18 is seeking. 2 13

network 14 in accordance with network communications protocols well known in the art, such as TCP/IP. Alternatively or notifies connection monitor 22 that communications terminal 12 is still connected to communications network 14 in accordance communications terminal 12 is still connected to communications additionally, connection notification apparatus 30 periodically otherwise determines if with network communications protocols well known in the art, periodically 22 or Connection monitor communications terminal 12 such as TCP/IP. 52 ಜ

1. Once user 34 is connected, information management apparatus 28 checks the list of sought users to determine if user 34 is sought by user 18. If so, information management apparatus 28 then checks the list of connected users to determine if user 18 is still connected. If user 18 is still connected, information management apparatus 28 causes annunciator 24 to transmit an annunciation to user 18, wherein the annunciation typically Reference is now made to Fig. 2 which shows a user 34 establishing a connection to communications network 14 preferably in the same manner as described for user 18 in 35 8

includes the unique identification code for sought user 34, the

current network address for sought user 34, and preferably other information provided by user 18. Information management

apparatus 28 preferably also checks the list of sought users to

determine if user 18 is sought by user 34 and, if so, causes annunciator 24 to transmit an annunciation to user

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described above.

According to another embodiment of the present

invention information management apparatus 28 checks the list

of users who wish to be asked for authorization to determine if

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user 34 wishes to explicitly authorize requests from seeking

If explicit users for information regarding user 34.

authorization is required from user 34, annunciator 24

to authorization authorization transmits a request for

apparatus 36, typically resident in communications terminal 12.

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User 34 authorizes or declines the request from user 18 for

relating to user information or other location

Authorization apparatus 36 then provides the authorization

information to information management apparatus 28 which determines whether to cause annunciator 24 to transmit an ឧ

annunciation to user 18.

making a point-to-point connection with sought user 34 using 34 as provided by annunciator 24 as described above with reference to Figs. 1 and point connection with user 34 once user 18 possesses the of the present Reference is now made to Fig. 3 which shows user 18 2. It is appreciated that user 18 may establish a point-toof user 34 independent sought user the network address of network address

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It is appreciated that any of the software components of the present invention may, if desired, be implemented in ROM be implemented in hardware, if desired, using The software components (read-only memory) form. conventional techniques. generally,

invention.

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invention which are, for brevity, described in the context of a invention which are, for clarity, described in the context of separate embodiments may also be provided in combination in a single embodiment may also be provided separately or in any is appreciated that various features of the Conversely, various features of suitable combination. single embodiment. Ħ

that the present invention is not limited by what has been particularly shown and described hereinabove. Rather the scope It will be appreciated by persons skilled in the art of the present invention is defined only by the claims which follow:

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CLAIMS

A communications system comprising:

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- a communications network;
- a multiplicity of communications terminals which are connectable to said communications network and which can be employed by users to communicate via said communications network, wherein a user is not necessarily identified with a given communications terminal;
- apparatus for monitoring whether or not a user is connected to said communications network irrespective of which of said multiplicity of communications terminals that user is employing; and

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apparatus for annunciating to a seeking user, currently connected to said communications network via any of said multiplicity of communications terminals, network connection status information relating to other users who are in a set of sought users, which set is definable by said seeking user, and for providing to said seeking user connection address information relating to those sought users who are currently connected to said communications network.

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- 2. A communications system according to claim 1 and wherein any of said users may function as at least one of a seeking user and a sought user.
 - seeking user and a sought user.

 23 3. A communications system according to claim 1 and wherein any of said users may function simultaneously as a seeking user and a sought user.
- 4. A communications system according to claim 1 and wherein said network connection status information includes an indication that a sought user is currently connected to the communications network.

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5. A communications system according to claim 1 and wherein said network connection status information includes an indication that a sought user has currently become connected to the communications network.

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- 6. A communications system according to claim 1 and wherein said network connection status information includes an indication that a sought user has currently become disconnected from the communications network.
- 7. A communications system according to claim 1 and wherein at least one of said users has a unique identification code.
- 8. A communications system according to claim 7 and wherein said unique identification code is independent of any
 - 10 communications terminal.
- 9. A communications system according to claim 1 wherein at least one server is connected to said communications network and wherein said apparatus for monitoring is resident in said at least one server.
- 15 10. A communications system according to claim 1 wherein at least one server is connected to said communications network and wherein said apparatus for annunciating is resident in said at least one server.
- 11. A communications system according to claim 1 and 20 comprising apparatus for notifying at least once that at least one of said users is currently connected to said communications
- 12. A communications system according to claim 11 and wherein said apparatus for notifying is resident in any of said
 - 25 multiplicity of communications terminals.
- 13. A communications system according to claim 1 wherein at least one of said users is currently connected to said communications network and has a network address, and comprising apparatus for determining said network address.
- 30 14. A communications system according to claim 13 wherein at least one server is connected to said communications network and wherein said apparatus for determining is resident in said at least one server.

- comprising apparatus for authorizing whether said at least one A communications system according to claim 1 and seeking user may access any of said information relating said sought users.
- wherein said apparatus for authorizing is resident in any of A communications system according to claim 16 and said multiplicity of communications terminals. 17.

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- A communications system according to claim 1 and comprising apparatus for maintaining information regarding any of said users.
- wherein said apparatus for maintaining information is resident A communications system according to claim 18 and communications to said least one server connected in at 2
- A communications system according to claim 18 and wherein at least one of said users provides information to said apparatus for maintaining information. 2
- wherein said information comprises said set of sought users. A communications system according to claim 18
- A communications system according to claim 18 and wherein said information comprises a request from a sought user to authorize whether a seeking user may access any of said information relating to said sought user. 23

wherein said communications network is configured to allow a A communications system according to claim 1 and first user from among any of said users to establish a pointof said address to-point connection with a second user from among any users if said first user possesses said connection information relating to said second user. 8

connection information relating to users, the method comprising: network indicating A method for

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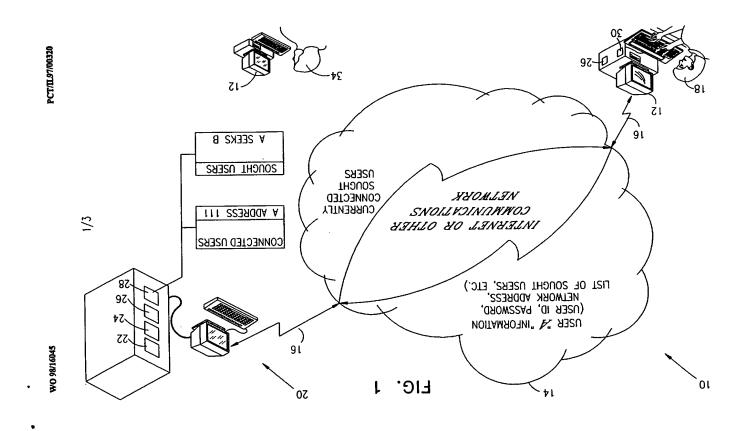
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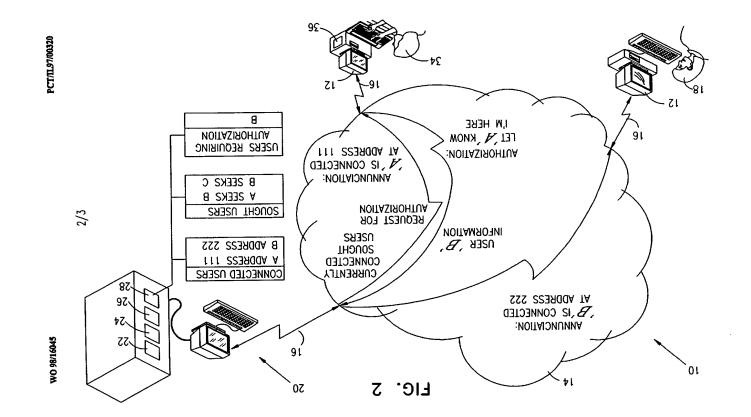
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said 1.5 monitoring whether or not a user is connected to a user multiplicity which of communications terminals that communications terminals irrespective of of via any network of communications multiplicity employing; annunciating to a seeking user, currently connected to said communications network via any of said multiplicity of communications terminals, network connection status information relating to other users who are in a set of sought users, which set is definable by said seeking user; and 2

providing to said seeking user connection address information relating to those sought users who are currently connected to said communications network.

- A method according to claim 23 wherein at least one of said users has a unique identification code. 12
- A method according to claim 24 wherein said unique any communications identification code is independent of terminal.





INTERNATIONAL SEARCH REPORT

internation. application No PCT/IL 97/00320

	9		into are included in the fields searched	are practical, search terms used)		Ges Relevant to claim No.	1–25 THE 1–25 31 – 11ne 1P 1–25		Patent family members are listed in annex.	Ti later document published after the international filling date of priority date and not no conflict with the application but clear to individual processing the application but clear to individual processing the application but whenton control to particular intervals to externol be considered to himse and invention according when the document is taken above 1" document of particular rejevence; the dathred invention cannot be considered to involve an invention and processing and pr
a, classification of sublect matter 1PC 6 H04L29/06	According to intermetrical Patent Glassification (IPC) or to both national classification and IPC as serings of a sering of statistics.	Minhaum documentation searched (classification system followed by classification symbols) 1PC 6 H04L H04M	Occumentation exercised other than minimum documentation to the extent that auch documents are included in the fields searched	Electronic data base consulted during the international search (name of data base and, where practical, search terms used)	C Advisterre deschippen 173 de per syaar	Chairon of document, with indication, where appropriate, of the relevant passages	MULLER N: "DIAL 1-800-INTERNET WITH NE SOFTWARE, YOU CAN TALK BUSINESS OVER TH NEI AND AVOID LONG-DISTANCE CHARGES" BYTE, vol. 21, no. 2, 1 February 1996, page 83/84, 86, 88 XP000566097 see page 83, right-hand column, line 31 line 39 see page 84, middle column, line 7 - 11 25 see figure 1	ADRESS" BYTE, vol. 21, no. 4, 1 April 1996, pages 142-144, XP000586038 see the whole document	Further documents are listed in the continuation of box C.	Special categories of cled documents: A document defining the general state of the art which is not one defining the general state of the art which is not one considered to be pufficular relevance. Te settler document but published on or after the retamational relevance illing date which may throw doubte on priority cleaning) or more which is due to establish the publication date specifies.
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PCT/II.97/00320 POINT—TO—POINT MESSAGE
"WOULD YOU CARE
"WOULD YOU CARE
"WOULD YOU CARE
"YOU CHAT?" 3/3 WO 98/16045 FIG. 01 Σ 50